none

@ EPONYO / EPO

PN - JP9050082 A 19970218

PD . 1997-02-18

PR - JP19950199554 19950804

OPD - 1995-08-04

IC

TI - PROJECTION TYPE DISPLAY DEVICE.

IN - SHIKAMA SHINSUKE: KIDA HIROSHI: OKAMORI SHINJI: TODE HIDEKAZU

PA - MITSUBISHI ELECTRIC CORP

- G03B21/14 : G02B5/22 : G09F9/00 : H04N5/74 : H04N9/31

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 Display device for projector - has synthetic part which combines condensed beam of reflective mirrors to single beam

PR - JP19950199554 19950804; JP19950263124 19951011

PN - JP9050082 A 19970218 DW 199717 G03B21/14 008pp

US 5765934 A 19980616 DW 199831 G03821/28 000pp

PA - (MITQ) MITSUBISHI ELECTRIC CORP.

- (MITO) MITSUBISHI DENKI KK

IC - G6265/22 ;G03821/14 ;G03821/28 ;G09F9/00 ;H04N5/74 ;H04N9/31 ;G02B5/22 ;G03821/14 ;G03821/28 ;G09F9/00 ;H04N5/74 ;H04N-00/91

IN - DAIJOGO A: KIDA H: OKAMORI S: SHIKAMA S: TOIDE E

AB J0905082 The device has a light source (1) with a pair of lamps (11, 31) and a couple of reflective mirrors (12, 22). The lamps illuminates the light valve elements (6R, 6G, 6B). The image formed by the light valve elements is enlarged by a projection lens (8) and is projected on a screen (10).

- The reflective mirrors condense the radiated beams of lamp and converge to a position in a synthetic

part (16) which combines the condensed beam to a single beam.

- ADVANTAGE - Consumes less power, Provides high intensity.

- (Dwg. 1/5)

USAB - US5765934 The device has a mirror (12) which condenses the light tradiated from a light source (11).
 An optical refractor (19) refracts the light towards the first lenses (14a, 14b).

The light converged from the first lenses is projected through a light guide (16). The light from the
optical guide is radiated almost in parallel to an optical valve (6) through a second lens (14c).

 ADVANTAGE - Ensures high definition and high efficiency of projection display device by reducing illuminance non-uniformity, beam irregulanty, colour phase irregulanty and uneven angle distribution characteristic. Provides lightweight and inexpensive light source device. Temperature management and replacement of float source can be performed easily.

OPD - 1995-08-04

AN - 1997-189489 [17]

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AP - JP19950199554 19950804

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TI PROJECTION TYPE DISPLAY DEVICE

AB - PROBLEM TO BE SOLVED: To provide a high-luminance and low-power-consumption projection type display device which can be continuously used without exchanging a lamp even when one lamp cannot be turned on because it is used to the limit.

none

none

P	

SOLUTION: A light source 1 is provided with the plural lamps 11 and 31 and plural reflecting mirrors 12 and 22. Then, luminous flux emitted from the plural lamps 11 and 31 is synthesized to the single luminous flux by a synthesis means 16 so as to illuminate light valve elements 68, 66 and 69. A picture formed on the element 6 is enlarged and projected on a screen 10 by a projection lens 8. All of the plural lamps 11 and 31 or the optional number other than all of them are simultaneously driven. As the synthesis means 16, one of an optical guide, a bending type reflection mirror and a reflection prism is used.

- G03B21/14 G02B5/22 G09F9/00 :H04N5/74 :H04N9/31

none none none

